dlc 96000439
(cont.)

X Collection

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Barcode Number	Box Number	Total of Volumes	Call Number
LIBRARY OF CONGRESS 0 029 767 400 6	1938 1 BOX	3	TH443–TH900
	1939	9	TH1065–TH5501
LIBRARY OF CONGRESS 0 029 767 401 8	1940	5	TH5606 no.1–5 (1950)
LIBRARY OF CONGRESS 0 029 767 402 A	1941 1 BOX	3	TH5606.Z9 no.1-3 (1948–52)
	1942	8	TH7201.A5–TH9148
LIBRARY OF CONGRESS 0 029 767 406 7	1945	7	TH9151 no.1-7 (1950–52) *
LIBRARY OF CONGRESS 0 029 767 403 1	1943	100	TH9237.U5 no.1-100 (1920–66)
LIBRARY OF CONGRESS 0 029 767 404 3	1944 A	51	TH9237.U5 no.1-51 (1921–50)

* Follows Call # Sequence

X Collection

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Barcode Number	Box Number	Total of Volumes	Call Number
	1944B	12	TH9237. U5 no. 52-63 (1953-60)
	1946A	54	TH9237. U5 no. 1-54 (1921-57)
	1946B	24	TH9237. U5 no. 55-78 (1958-Undated)
	1947A	90	TH9237. U5 no. 1-90 (1919-53)
	1947B	16	TH9237. U5 no. 91-106 (1953-55)
	1948A	100	TH9237. U5 no. 1-100 (1947-53)
	1948B	28	TH9237. U5 no. 101-128 (1954-Undated)

X-TH 9237
.U5

SUBJECT 199

STANDARD
FOR
AUTOMATIC SPRINKLERS
(Section III)

DECEMBER, 1919

FOUNDED 1894

Underwriters' Laboratories, Inc.

For Service - Not for Profit

SPONSORED BY

National Board of Fire Underwriters

207 EAST OHIO STREET, CHICAGO

TH
975
.U7
no. 296
X-TH9237
.U5

SUBJECT 296
STANDARD
FOR
DOMESTIC OIL BURNERS
MARCH, 1934

Copy

EMERGENCY REQUIREMENTS

During the period of the National Emergency, the Requirements of this Standard will be affected by such Emergency Requirements as have been or may be issued by Underwriters' Laboratories, Inc., for this classification.

BUREAU OF COMMUNITY FACILITIES
RECEIVED
JUL 23 1943
LIBRARY

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National Board of Fire Underwriters

207 EAST OHIO STREET, CHICAGO

PRINTED IN U.S.A.
2-43

X-TH9231
.U5

SUBJECT 275
STANDARD
FOR
CLEARANCE, MARKER AND IDENTIFICATION LAMPS
FOR
MOTOR VEHICLES

SEPTEMBER 1940

JAN 2
Copy 1961

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207 EAST OHIO STREET, CHICAGO

PRINTED IN U.S.A.
4-40

TK
275
U7
1

X-TH9231
.U5

SUBJECT 919
STANDARD
FOR
DIRECTION SIGNAL SYSTEMS
FOR
AUTOMOTIVE VEHICLES

SEPTEMBER 1940

Copy 1961

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207 EAST OHIO STREET, CHICAGO

FEDERAL WORKS AGENCY
LIBRARY

PRINTED IN U.S.A.
4-40

TK
275
.U7
no.207a

X-TH9237
.U5

X-TH9237
.U5
#5

SUBJECT 207

STANDARD
FOR
UNIT REFRIGERATING SYSTEMS

NOVEMBER 1940

JAN 23 1961

FOUNDED 1894

Underwriters' Laboratories, Inc.

For Service - Not for Profit

SPONSORED BY

National Board of Fire Underwriters

207 EAST OHIO STREET, CHICAGO

FEDERAL SECURITY AGENCY
LIBRARY

PRINTED IN U.S.A.
4-40

TK
275
.U7
no.207

SUBJECT 207

STANDARD
FOR
AIR-CONDITIONING AND COMMERCIAL REFRIGERATING EQUIPMENT

OCTOBER 1940

3 - JAN 2 -
Copy ____ 1961
X-TH 9237
.U5
X-TH 9237 .U5 #10

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National Board of Fire Underwriters
207 EAST OHIO STREET, CHICAGO

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4-40

X-F 11923
205

SUBJECT 912
STANDARD
FOR
HIGHWAY EMERGENCY SIGNALS
SEPTEMBER 1940

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207 EAST OHIO STREET, CHICAGO

PRINTED IN U.S.A.

TK
275
.U7
X-TH 9237
.U5

SUBJECT 109
STANDARD
FOR
FITTINGS
FOR
AUTOMOTIVE, GAS, HAZARDOUS LIQUID AND REFRIGERATION APPLICATIONS

SEPTEMBER, 1940

JAN 2 0 1961

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X-TH 9237 #9
.U5

5 Copy 2 19 52

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STANDARD

FOR

SURFACE METAL RACEWAYS

AND FITTINGS

FOURTH EDITION
DECEMBER, 1940

PRINTED IN U. S. A.

X-TH 9237
.U5 #10

5 3
Copy 19
52

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National Board of Fire Underwriters

STANDARD

FOR

RECTIFIERS

FIRST EDITION
JULY, 1940

PRINTED IN U. S. A.

X-TH 9237 #11
.U5

5 Copy 3 19 52

FOUNDED 1894

Underwriters' Laboratories, Inc.
For Service - Not for Profit

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National Board of Fire Underwriters

STANDARD
FOR
ELECTRODE RECEPTACLES
FOR
GAS-TUBE SIGNS

FIRST EDITION
FEBRUARY, 1940

PRINTED IN U. S. A.

TK
275
.U7
no.55

X-TH9237
.U5

X-TH9237.U5#12

SUBJECT 55

STANDARD
FOR
CLASS C
ASPHALT RAG-FELT SHEET ROOFING
AND SHINGLES

JANUARY 1941

JAN 2 1941

FOUNDED 1894

Underwriters' Laboratories, Inc.

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LIBRARY

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4-40

454353 JAN2241

X-TH 9237.U5 #15

ALVAH SMALL, VICE CHAIRMAN
CURTIS R. WELBORN, PRESIDENT

FOUNDED 1894

M. M. BRANDON, VICE PRES. AND ELEC. ENGR.
W. S. AUSTIN, SECRETARY
H. F. DUNCAN, TREASURER

Underwriters' Laboratories, Inc.
For Service - Not for Profit
SPONSORED BY
National Board of Fire Underwriters
207 E. OHIO ST., CHICAGO 11, ILLINOIS

Subject 14 EAS

July 29, 1942

To: Fire Council of Underwriters' Laboratories, Inc.
and
Manufacturers Subscribing to the Factory Inspection and Label Service for Sliding Hardware for Tin-Clad Fire Doors

Gentlemen:

As of the above date and for the duration of the National Emergency, the following Alternate Specification for Sliding Hardware for Tin-Clad Fire Doors is effective.

Track - The thickness of the track shall be not less than 3/8 in. nor more than 1/2 in. The depth of the track may be reduced as the thickness increases provided the product of the thickness multiplied by the square of the depth is not less than 3.95. (This will permit the use of track 1/2 by 3 in. or 7/16 by 3 in.) If other than standard 3/8-in. thick track is used, other parts of hardware such as wheels, hangers, bumpers, etc. may require corresponding modification in design and dimensions.

UNDERWRITERS' LABORATORIES, INC.

JOHN A. NEALE
Chief Engineer

JAN:BQL

X-TH 9237 #14
U.S.
5 Copy 3 19 52

FOUNDED 1894

Underwriters' Laboratories, Inc.
For Service - Not for Profit
SPONSORED BY
National Board of Fire Underwriters

STANDARD
FOR
BURGLARY-RESISTING SAFES AND RELOCKING DEVICES

EMERGENCY REQUIREMENTS

During the period of the National Emergency, the Requirements of this Standard will be affected by such Emergency Requirements as have been or may be issued by Underwriters' Laboratories, Inc., for this classification.

SUBJECT 687, SECOND EDITION
SUBJECT 140, THIRD EDITION
JUNE, 1943

PRINTED IN U.S.A.

X-TH9237
.U5 #15

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Underwriters' Laboratories, Inc.

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STANDARD
FOR
ELECTRIC MOTORS AND GENERATORS
FOR USE IN
ATMOSPHERES OF COMBUSTIBLE DUST
CLASS II, GROUPS F AND G

EMERGENCY REQUIREMENTS

During the period of the National Emergency, the Requirements of this Standard will be affected by such Emergency Requirements as have been or may be issued by Underwriters' Laboratories, Inc., for this classification.

SUBJECT 674
FIFTH EDITION
FEBRUARY, 1943

PRINTED IN U.S.A.

X-TH 9237. US # 16

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CURTIS R. WELBORN, PRESIDENT

FOUNDED 1894

M. M. BRANDON, VICE PRES. AND ELEC. ENGR.
W. S. AUSTIN, SECRETARY
H. F. DUNCAN, TREASURER

Underwriters' Laboratories, Inc.
For Service - Not for Profit
SPONSORED BY
National Board of Fire Underwriters
161 SIXTH AVE., NEW YORK 13, NEW YORK

Subject 44 ER

September 17, 1945

EMERGENCY REQUIREMENT

RUBBER-COVERED WIRES AND CABLES

The following supersedes Emergency Requirements on Rubber-Covered Wires and Cables dated July 9 and July 24, 1943 and June 4, 1945. This issue includes all emergency requirements applicable to this classification which have been issued to date and which are still in effect.

* * * * * * * * * * * * * * * * * *

The following emergency requirements are in effect for the duration of the National Emergency, and as a temporary departure from the June, 1940 edition of Underwriters' Laboratories, Inc., Standard for Rubber-Covered Wires and Cables. Items marked (N) are new in this issue, and those marked (R) are revised.

(R) GENERAL

Unless otherwise noted, features covered by these emergency requirements need not be submitted to the Electrical Department of Underwriters' Laboratories, Inc., for review before being incorporated in labeled wires and cables, but will be checked by the Laboratories' inspectors as a part of the Factory Inspection and Label Service program.

The labeling of Types RP and RPT wires has been discontinued.

Type RW wire employing other than natural rubber insulation should be submitted to the Laboratories' Electrical Department for special investigation.

PARAGRAPH 22

In lieu of multiple-conductor assemblies employing only rubber-insulated conductors, the Laboratories will

X-TH9237.US#17

ALVAH SMALL, VICE CHAIRMAN
CURTIS R. WELBORN, PRESIDENT

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W. S. AUSTIN, SECRETARY
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Underwriters' Laboratories, Inc.
For Service - Not for Profit

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National Board of Fire Underwriters
161 SIXTH AVE., NEW YORK 13, NEW YORK

Subject 719 June 3, 1946

To: Electrical Council of Underwriters' Laboratories, Inc.,
and
Manufacturers of Listed Nonmetallic-Sheathed Cable.

Subject: Modification of Standard Requirements for Nonmetallic-Sheathed Cable.

In a revocation notice of even date, those concerned with the Laboratories' requirements for nonmetallic-sheathed cable are being advised that the May 24, 1945 Emergency Requirement for nonmetallic-sheathed cable is rescinded -- this revocation to become effective on June 15, 1946.

This revocation of the Emergency Requirement, in conjunction with the changes in the National Electrical Code which will be contained in the forthcoming 1946 edition, will necessitate some changes in the Laboratories' requirements for nonmetallic-sheathed cable. These have been considered carefully and have been discussed with the Laboratories' Industry Advisory Conference for this classification; and pending the issuance of a revised edition of the Standard, the following items will be in effect both for new submittals and the Laboratories' Factory Inspection and Label Service Program for this product.

Until November 1, 1946, Type R wire in nonmetallic-sheathed cable may be either the code-grade wire covered by the Laboratories' current Standard and Emergency Requirement for Rubber-Covered Wires and Cables or the new 1946 Code-grade wire which has 1/32-inch insulation in the Nos. 14 and 12 Awg sizes. On and after November 1, Type R wire will be required to be the new 1946 Code-grade. From now on, nonmetallic-sheathed cable may employ also Types RH, T, and RU conductors.

* * * * * * * * * * *

PARAGRAPHS 7-8

The references to rubber (in connection with insulation) will be deleted from these paragraphs, and the text of each paragraph will be amplified to include mention of the Standard for Thermoplastic-Insulated Wires as well as the Standard for Rubber-Covered Wires and Cables.

X-TH 9237
.U5 #18

JAN 12 1949

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Underwriters' Laboratories, Inc.

For Service - Not for Profit

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National Board of Fire Underwriters

STANDARD

FOR

ATTACHMENT PLUGS AND

RECEPTACLES

FOURTH EDITION
NOVEMBER, 1948

498

PRINTED IN U. S. A.

(over)

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Underwriters' Laboratories, Inc.

#18 Attachment

For Service - Not for Profit

SPONSORED BY

National Board of Fire Underwriters

161 SIXTH AVE., NEW YORK 13

Subject 498

December 31, 1948

To: Holders of the Standard for Attachment Plugs and Receptacles.

Subject: New Edition of the Standard.

Attached is a copy of the new November, 1948 edition of Underwriters' Laboratories, Inc., Standard for Attachment Plugs and Receptacles. This is the fourth edition, superseding the June, 1942 edition, and is to become effective April 1, 1949.

The new Standard has been prepared as the result of careful study of the subject by the Laboratories' staff, it has been reviewed by and discussed with manufacturers of listed attachment plugs and receptacles and others known to have an interest in these requirements, and it has been approved by the Laboratories' Electrical Council.

This edtiion of the Standard differs from the previous edition with respect to the items which were presented in the Laboratories' bulletins of February 13 and June 30, 1948. Although there are a large number of new and modified paragraphs in the present text, these changes in and additions to the requirements are, for the most part, of a relatively minor nature. Quite a bit of the material in the Standard has been rearranged and, in addition, numerous changes of a purely editorial nature have been made.

UNDERWRITERS' LABORATORIES, INC.

H. B. Smith

H. B. SMITH
Associate Electrical Engineer

X-TH 9237 #19
.U5
5 Copy

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Underwriters' Laboratories, Inc.

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National Board of Fire Underwriters

STANDARD
FOR
SLIDING HARDWARE FOR STANDARD, HORIZONTALLY MOUNTED TIN-CLAD FIRE DOORS

SUBJECT 14(b)
SECOND EDITION
FEBRUARY, 1943
Reprinted October, 1948

X-TH 9237 #20
.U5
5 Copy

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National Board of Fire Underwriters

STANDARD
FOR
SWINGING HARDWARE FOR STANDARD TIN-CLAD FIRE DOORS,
MOUNTED SINGLY AND IN PAIRS

SUBJECT 14(c)
SECOND EDITION
MAY, 1943
Reprinted October, 1948

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STANDARD

FOR

PANELBOARDS

FIFTH EDITION
NOVEMBER, 1948

67

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.U5

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19
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National Board of Fire Underwriters

STANDARD

FOR

GAS-TUBE-SIGN AND IGNITION CABLE

THIRD EDITION
OCTOBER, 1948

814

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.U5

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STANDARD

FOR

KNIFE SWITCHES

SECOND EDITION
MAY, 1939
REPRINTED MARCH, 1948

363

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10

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STANDARD

FOR

ELECTRIC STORAGE-TANK

WATER HEATERS

FIRST EDITION

NOVEMBER, 1948

174

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X-TH 9237 #25
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52.

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STANDARD

FOR

THERMOPLASTIC-INSULATED

WIRES

THIRD EDITION
APRIL, 1946

83

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STANDARD
FOR
COTTON RUBBER-LINED
FIRE HOSE

FOR PUBLIC AND PRIVATE DEPARTMENT USE

Subject 19
Fifth Edition
April, 1948

X-TH 9237
.U5 #27

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STANDARD FOR CONCRETE MASONRY UNITS

SUBJECT 618
Third Edition
July, 1949

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X-TH 9237 #28
.U5

5 Copy
3
19
52

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STANDARD
FOR
INDUSTRIAL CONTROL EQUIPMENT
FOR USE IN
HAZARDOUS LOCATIONS

SUBJECT 698
SIXTH EDITION
DECEMBER, 1949

PRINTED IN U.S.A.

X-TH 9237
.U5 #29

5 Copy 3 19 52

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STANDARD FOR CHEMICAL ENGINE HOSE

SUBJECT 92
SECOND EDITION
MARCH, 1949

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X-TH 9237 #30
.U5

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STANDARD

FOR

LADDERS

SUBJECT 112
THIRD EDITION
DECEMBER, 1949

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.U5

5
Copy
3
19
52

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STANDARD

FOR

DEAD-FRONT

SWITCHBOARDS

SECOND EDITION
JULY, 1938
REPRINTED DECEMBER, 1949

891

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X-TH 9237 #32
.U5

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3 19 52

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STANDARD

FOR

SERVICE CABLES

FIRST EDITION
APRIL, 1937
REPRINTED NOVEMBER, 1949
854

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X-TH 9237
.U5 #33

5
Copy

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STANDARD

FOR

EDISON-BASE

LAMPHOLDERS

FOURTH EDITION

JANUARY, 1949

496

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X-TH 9237 #34
US
5 Copy
3 19 52

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STANDARD

FOR

SPECIALTY

TRANSFORMERS

THIRD EDITION
JUNE, 1940
REPRINTED JUNE, 1949
800

PRINTED IN U. S. A.

X-TH 9237
.U5 #35

5 Copy 3 19 52

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STANDARD
FOR
ELECTRICAL FITTINGS
FOR USE IN
HAZARDOUS LOCATIONS
CLASS I, GROUP D

SUBJECT 886
FOURTH EDITION
MARCH, 1950

PRINTED IN U.S.A.

X-TH 9237
.U5 #36

5 Copy

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STANDARD

FOR

2½-GALLON LOOSE STOPPLE SODA-ACID EXTINGUISHERS

SUBJECT 7(C)
SECOND EDITION
JULY, 1950

PRINTED IN U. S. A.

X.TH 9237
.U5 #37

5
Copy
3
19
52

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STANDARD
FOR
VALVES
FOR
HAZARDOUS LIQUIDS

SUBJECT 842
SECOND EDITION
JULY, 1950

PRINTED IN U. S. A.

X-TH 9237
.U5 #38

5
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STANDARD

FOR

ELECTRIC FLATIRONS

AND IRONING MACHINES

SECOND EDITION
JUNE, 1940
REPRINTED JUNE, 1950
141

PRINTED IN U. S. A.

X-TH 9237
·U5 #39

5 Copy
3 19 52

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Underwriters' Laboratories, Inc.
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STANDARD
FOR
ELECTRIC
SIGNS

FOURTH EDITION
MARCH, 1940
REPRINTED MAY, 1950
48

PRINTED IN U. S. A.

X-TH 9237
.U5 #40

5
Copy
3
19
52

FOUNDED 1894

Underwriters' Laboratories, Inc.

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SPONSORED BY

National Board of Fire Underwriters

STANDARD
FOR
STEEL PIPE
FOR
UNDERGROUND WATER SERVICE

SUBJECT 888
FIFTH EDITION
MAY, 1950

PRINTED IN U. S. A.

X-TH 9237
.U5 #41

5
Copy
5
3
50

FOUNDED 1894

Underwriters' Laboratories, Inc.

For Service - Not for Profit

SPONSORED BY

National Board of Fire Underwriters

STANDARD
FOR
ELECTRIC LIGHTING FIXTURES
FOR USE IN
HAZARDOUS LOCATIONS

SUBJECT 844
Fourth Edition
March, 1950

PRINTED IN U. S. A.

X-TH 9237
.U5 #42

5 | 3
Copy | 19
52

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Underwriters' Laboratories, Inc.

For Service - Not for Profit

SPONSORED BY

National Board of Fire Underwriters

STANDARD

FOR

POWER-OPERATED

RADIO RECEIVING APPLIANCES

SEVENTH EDITION
FEBRUARY, 1950

492

PRINTED IN U. S. A.

X-TH 9237
.U5 #43

5
Copy

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STANDARD
FOR
CABINETS
AND BOXES

THIRD EDITION
FEBRUARY, 1941
REPRINTED MAY, 1950

80

PRINTED IN U. S. A.

X-TH 9237
.U5 #44

5 Copy 3 1952

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National Board of Fire Underwriters

STANDARD

FOR

MOTOR-OPERATED FANS

SECOND EDITION
MARCH 1938
REPRINTED NOVEMBER, 1950

507

PRINTED IN U. S. A.

X-TH .U5 9237 #45

5 Copy 3 19 52

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STANDARD

FOR

RUBBER-COVERED

WIRES AND CABLES

FOURTH EDITION
JUNE, 1940
REPRINTED NOVEMBER, 1950
44

PRINTED IN U. S. A.

Author
Title
Class TH9237
Book .U59
Imprint
16—47370-1 GPO

TH9237
.U5 #46

(over)

#46

12
10
50

Underwriters' Laboratories, Inc.
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STANDARD

FOR

VEHICLE ALARM SYSTEMS

SUBJECT 904
November, 1950
(FOR RESTRICTED DISTRIBUTION)

Class TH9237
Book .U59

Author
Title
Imprint

16—47372-2 GPO

1950

X TH9237
.U5

(over)

#47

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National Board of Fire Underwriters

STANDARD

FOR

2½-GALLON FOAM EXTINGUISHERS

SUBJECT 7(B)
SECOND EDITION
JULY, 1950

Class TH9237
Book .U59

Author
Title
Imprint

16—47872-1 GPO

1950

X-TH9237
.U5

(cover)

#48

FOUNDED 1894

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STANDARD

FOR

FOAM EXTINGUISHERS

(33-GALLON)

SUBJECT 68

SECOND EDITION

JULY, 1950

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STANDARD

FOR

VALVES

FOR

HAZARDOUS LIQUIDS

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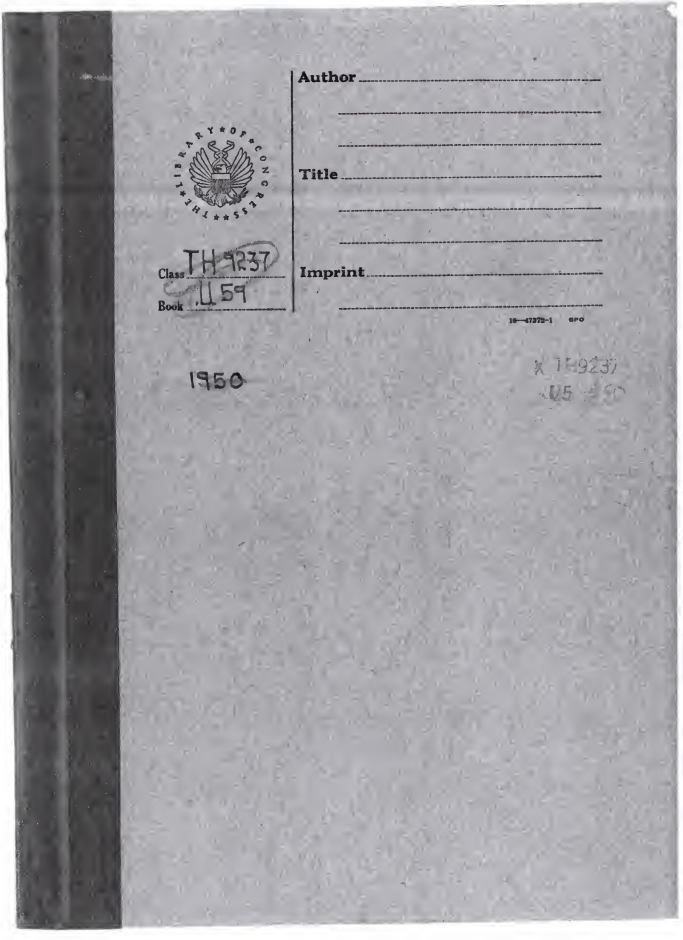
SUBJECT 842
SECOND EDITION
JULY, 1950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STANDARD
FOR
OUTSIDE SCREW
AND
YOKE GATE VALVES

SUBJECT 262(B)
SECOND EDITION
AUGUST, 1950

PRINTED IN U. S. A.

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STANDARD TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS

SUBJECT 723
First Edition
August, 1950

Class TH9237
Book .U59

Author
Title
Imprint

16—47372-1 GPO

1950

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STANDARD

FOR

2½-GALLON LOOSE STOPPLE SODA-ACID EXTINGUISHERS

SUBJECT 7(C)
SECOND EDITION
JULY, 1950

Author

Title

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Book .U59

Imprint

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STANDARD
FOR
POWER-OPERATED
DISCHARGE DEVICES

SUBJECT 87
Second Edition
March, 1951

Author
Title
Imprint
16—47879-1 GPO

Class TH9237
Book U59

2d ed., Sept. 1951

X-TH9237
.U5 #54

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STANDARD

FOR

SERVICE EQUIPMENT

SECOND EDITION
SEPTEMBER 1951

869

LIBRARY OF CONGRESS

Author

Title

Class TH9237

Book .U5 1954

Imprint

16—47373-1 GPO

March 1954

X TH9237
.U5 1954

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STANDARD

FOR

OUTLET BOXES AND FITTINGS

THIRD EDITION
MARCH 1951
5M

X-TH 9237
.U5 #56

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STANDARD

FOR

RAG-FELT ROOF COVERING MATERIALS FOR USE IN CONSTRUCTION OF BUILT-UP ROOF COVERINGS

SUBJECT 55(A)
SEVENTH EDITION
NOVEMBER, 1951

PRINTED IN U. S. A.

(over)

#56
Attachment

Subject 55 February 5, 1952

B U L L E T I N

TO: Manufacturers Subscribing to the Factory Inspection and Label Service for Built-Up Roof-Covering Materials for use in Construction of Built-up Roof-Coverings.

1. Accompanying this letter is a copy of the 7th Edition (November 1951) of Underwriters' Laboratories, Inc.'s Subject 55 (a) Standard for Rag-Felt Roof-Covering Materials for use in Construction of Built-Up Roof-Coverings. This publication replaces and supersedes all previous editions and should be filed in your copy of the Label Service Procedure.

2. This new edition incorporates the sticker revision of Paragraph 72 dated April 1947 as well as editorial changes of the section on "Inspection of Listed Product."

C. G. SMITH
Service Engineer

CGS:eb

X-TH 9237
.U5 #57

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STANDARD

FOR

NONMETALLIC-SHEATHED

CABLE

FOURTH EDITION

JULY, 1941

REPRINTED OCTOBER, 1951

719

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STANDARD

FOR

MOTOR-OPERATED

APPLIANCES

FIRST EDITION
APRIL, 1937
REPRINTED APRIL, 1951
73

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STANDARD
FOR
HOLDUP ALARM
SYSTEMS

SUBJECT 636
Third Edition
November, 1952
(For Restricted Distribution)

PRINTED IN U. S. A.

X-TH 9237
·U5 #60

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GENERAL LIST

OF

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207 East Ohio Street, Chicago 11, Ill.
161 Sixth Avenue, New York 13, N. Y.
500 Sansome Street, San Francisco 11, Calif.

DECEMBER, 1952

PRINTED IN U. S. A.

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JUNE, 1953

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X-TH 9237
.U5
#63

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National Board of Fire Underwriters

Subject 57 May, 1953

EXPLANATORY NOTES APPLYING TO THE STANDARD FOR ELECTRIC LIGHTING FIXTURES

These notes contain interpretations of the Requirements of the Sixth Edition of the Standard for Electric Lighting Fixtures (October, 1952) and information concerning materials and forms of construction not fully covered in the Standard.

A design or material differing from those detailed in the Standard may be examined and tested according to the intent of the Requirements and if found to be substantially the equivalent may be given recognition.

These notes appear in the order of the paragraphs in the Standard to which they apply.

Paragraphs 18–19 — Special forms of construction employing lighter gauge metals in limited areas may be submitted and, if found to provide the mechanical strength and protection contemplated by the Standard, will be described in the Label Service Procedure.

Paragraph 39 — Certain variations in the number and size of ballast mounting holes may be permitted if found to be satisfactory on the basis of a special investigation and adequate coverage in the Label Service Procedure.

Paragraph 60 — Slow-burning thermoplastic panels may generally be accepted without question. Special methods of supporting such panels may be submitted and, if found satisfactory, will be described in the Label Service Procedure.

Glassware need not be actually mounted in a frame or holder as the fixture is shipped from the factory. The glassware must be contained in the same carton with the rest of the complete fixture, but may be separately wrapped to protect it from breakage. A suitable holder, frame, trough, clips, etc., must be a part of the fixture.

Paragraph 77 — A latch construction which involves something less than a completely positive latch may be submitted and, if found to achieve the desired results, may be accepted for some fixtures and described in the Label Service Procedure.

X-TH 9237
U5 #64

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STANDARD
FOR
PROTECTORS FOR
COMMUNICATION CIRCUITS

FIRST EDITION
MARCH 1953

497

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X-TH 9237
.U5 #65

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STANDARD

FOR

COMBINATION LOCKS

SUBJECT 768
FIRST EDITION
JANUARY, 1953

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X-TH 9287 .U5 #666

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STANDARD

FOR

RIGID METALLIC CONDUIT

FIFTH EDITION

SEPTEMBER, 1953

6

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.U5 #67

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STANDARD
FOR
ABOVEGROUND STORAGE TANKS
FOR
HAZARDOUS LIQUIDS

SUBJECT 142
Second Edition
October, 1953

PRINTED IN U. S. A.

X-TH 9237
.U5 #168

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STANDARD
FOR
TELLERS' LOCKERS

SUBJECT 901
FIRST EDITION
JULY, 1953
(For Restricted Distribution)

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X-TH 9237
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STANDARD

FOR

SWEEPING COMPOUNDS

SUBJECT 41
FIRST EDITION
JANUARY, 1953

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X-TH 9237 #10
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STANDARD

FOR

ELECTRICALLY ILLUMINATED SCALES

FIRST EDITION
NOVEMBER, 1953

466

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X-TH 9237 #71

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STANDARD

FOR

CAPACITORS

FIRST EDITION

NOVEMBER, 1953

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.U5 #72

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STANDARD

FOR

WIRE CONNECTORS

AND

SOLDERING LUGS

THIRD EDITION
FEBRUARY, 1953
486

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X-TH 9237
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STANDARD FOR COTTON RUBBER-LINED FIRE HOSE

FOR PUBLIC AND PRIVATE DEPARTMENT USE

SUBJECT 19
SIXTH EDITION
AUGUST, 1953

PRINTED IN U.S.A.

X-TH 9237
.U5 #74

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STANDARD

FOR

CLASS "C" ASPHALT ORGANIC-FELT SHEET ROOFING AND SHINGLES

SUBJECT 55(B)
TENTH EDITION
SEPTEMBER, 1953

X-TH 9237
·U5 #75

AUG 7 1953

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STANDARD

FOR

TEMPERATURE-INDICATING AND -REGULATING EQUIPMENT

FOURTH EDITION
JUNE, 1953

873

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STANDARD

FOR

FUSES

SIXTH EDITION
MARCH, 1953

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STANDARD
FOR
OIL-BURNING STOVES

SUBJECT 896
Second Edition
October, 1953

PRINTED IN U. S. A.

X-TH 9237
·U5 #78

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STANDARD

FOR

INSTALLATION, CLASSIFICATION, AND CERTIFICATION OF BURGLAR ALARM SYSTEMS

5
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SUBJECT 681
Fourth Edition
April, 1953
(For Restricted Distribution)

PRINTED IN U. S. A.

(cover)

CURTIS R. WELBORN, PRESIDENT
MERWIN BRANDON, VICE PRESIDENT

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W. S. AUSTIN, SECRETARY
H. F. DUNCAN, TREASURER

#78
Attachment

Underwriters' Laboratories, Inc.
For Service - Not for Profit
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National Board of Fire Underwriters
207 E. OHIO ST., CHICAGO 11, ILLINOIS

Subj 681

May 5, 1953

TO: Burglary Protection Council of Underwriters' Laboratories, Inc.
Listed Burglar Alarm Companies
Holders of Burglary Standards (Restricted List)

SUBJECT: Standard for Installation, Classification and Certification of Burglar Alarm Systems - Fourth Edition.

Gentlemen:

1. Enclosed is a revised printed edition dated April 1953 of the above captioned Standard of Underwriters' Laboratories, Inc.

2. The revised Standard has been reviewed by members of the Burglary Protection Council and by listed alarm companies. It becomes effective immediately.

3. It will be noted that technical revisions occur in paragraphs 10, 45, 47, 62, 87, 88, 130, 141, 178 and 257. Extensive editorial changes include the inclusion of a subject Index.

4. Extra copies of the Standard are available on request.

UNDERWRITERS' LABORATORIES, INC.

H. B. Michael

H. B. MICHAEL
Engineer
Burglary Protection Department

HBM:CM

Subj. cat.
5 NOV 16
X-TH 9237
.U5 #79

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STANDARD
FOR
INSIDE STORAGE TANKS
FOR
OIL BURNERS

SUBJECT 80
Third Edition
October, 1953

PRINTED IN U.S.A.

(over)

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207 E. OHIO ST., CHICAGO 11, ILLINOIS

Subject 80

October 27, 1953

TO: Holders of Standard for Inside Storage Tanks

SUBJECT: New Edition of Standard

Enclosed is a copy of the October, 1953 edition of the Standard for Inside Storage Tanks for Oil Burners. This is the third edition and supersedes the edition of November, 1934.

The 1953 edition of the Standard becomes effective for all inside storage tanks to be labeled after January 15, 1954. Prior to that date, a newly submitted inside storage tank will be judged under the requirements of the 1953 edition unless the submittor specifically requests that it be judged under the requirements of the 1934 edition. However, should he elect this option, the submittor should note that conformance to the requirements of the 1953 edition will be required of all inside storage tanks to be labeled after January 15, 1954.

Additional copies of this Standard are available on request.

UNDERWRITERS' LABORATORIES, INC.

H. W. GWYNN
Engineer

HWG:RMC

248 THICKNESS OF JACKETS*

X-TH 9237 .U5

Awg Size of Conductors	Number of Conductors	Nominal Thickness in 64ths of an Inch	Average Thickness in Mils — Minimum	Minimum Thickness at Any Point in Mils
18–16	2–4	4 (7)	63.0 (109.0)	55.0 (100.0)
	5–6†	5	78.0	70.0
14	2–4	5 (7½)	78.0 (117.0)	70.0 (108.0)
	5–6†	6	94.0	86.0
12–10	2–4†	6 (8)	94.0 (125.0)	86.0 (115.0)

* The values in parentheses apply to the jackets of cords which have Class 5 latex-rubber insulation on the individual conductors.

† In a cord having a greater number of conductors, the thickness of the jacket is required to comply with the table in paragraph 250.

Paragraph 248 revised May, 1953 — Standard for Flexible Cord and Fixture Wire, Fourth Edition

---

423 Except for the endurance test of heater cord, the inspector shall select two or more samples of each type and size of wire or cord and inspect them in accordance with the preceding paragraph; and if failure occurs, at least six but not more than twelve additional samples shall be selected and inspected. For the endurance test of heater cord, only one sample (to provide the four specimens described in paragraphs 288–293) need be selected; and if failure occurs, three additional samples (providing a total of twelve specimens) shall be selected and tested.

Paragraph 423 revised May, 1953 — Standard for Flexible Cord and Fixture Wire, Fourth Edition

---

Delete paragraph 436

437 The elongation and tensile-strength tests shall be made with samples which have not been subjected previously to the recovery test. In any case, the elongation and tensile-strength tests shall be made simultaneously.

Paragraph 436 deleted and Paragraph 437 revised May, 1953 — Standard for Flexible Cord and Fixture Wire, Fourth Edition

---

This sheet, issued May, 1953, corrects certain errors and omissions in the text of the July, 1952 (fourth) edition of Underwriters' Laboratories, Inc., Standard for Flexible Cord and Fixture Wire.

Paragraph 3 — In the sixth line and also in the seventh line, change the word "polyvinyl" to read "vinyl."

Table I — For the conductor stranding of Types AF and CF heat-resistant fixture wire, change the section of the table which now reads "36–30 Awg (26–27)" to read "Solid, 7-strand, or 36–30 Awg (26–27)."

Table II — For the conductor stranding of Types FX, FXT, X, and XT Christmas-tree wires and cords, change the section of the table which now reads "36–34 Awg (26–27)" to read "36–30 Awg, except 36–34 Awg for braidless parallel cords (26–27)."

For the conductor resistance of Types TS and TST jacketed tinsel cords, insert "(30)" in this section of the table, the same as is shown in the adjacent section for Types TP and TPT.

Paragraph 19 — Delete the parenthetical expression "(flexible stranding)" in the second line.

Paragraph 07 — To make this paragraph consistent with paragraph

---

M. M. BRANDON, VICE PRES. AND ELEC. ENGR.
W. S. AUSTIN, SECRETARY
H. F. DUNCAN, TREASURER

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May 14, 1953

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LABORATORIES, INC.

B. Smith

B. SMITH
ds Engineer

X-TH 9237
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ALVAH SMALL, VICE CHAIRMAN
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M. M. BRANDON, VICE PRES. AND ELEC. ENGR.
W. S. AUSTIN, SECRETARY
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X-TH 9237.U5 #81

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161 SIXTH AVE., NEW YORK 13, NEW YORK

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63

Subject 198

March 19, 1953

To: Holders of the Standard for Fuses.

Subject: Revised Edition of the Standard.

Accompanying this letter is a copy of the March, 1953 (sixth) edition of the Laboratories' Standard for Fuses. This new edition supersedes the edition of January, 1948, and will become effective on June 1st, 1953.

The new edition of the Standard has been prepared as the result of careful study by the Laboratories' staff; it has been reviewed by and discussed quite extensively with manufacturers of listed fuses, an with others known to have an interest in the requirements which this Standard contains; and it has been approved by the Laboratories' Electrical Council, which is comprised largely of inspection authorities throughout the United States.

The illustration in paragraph 38 and the table in paragraph 39 have been amended to show the G, H, and I dimensions of knife-blade fuses in accordance with the Laboratories bulletin of April 25, 1952. In addition, paragraphs 79-82 on the subject of "Marking" have been revised in accordance with the amendment of section 92403 of the National Electrical Code, which now permits direct printing of the marking on the barrel or tube of a fuse and which has dropped the former requirement relating to the blue, green, and red colors of labels. Otherwise, only a few editorial changes of a minor nature have been made.

UNDERWRITERS' LABORATORIES, INC.

H. B. Smith

H. B. SMITH
Standards Engineer

X-TH 9237
.U5

X-TH 9237.U5 #82

14
6
63

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161 SIXTH AVE., NEW YORK 13, NEW YORK

Subject 497

March 17, 1953

To: Electrical Council of Underwriters' Laboratories, Inc.
and
Manufacturers of Listed Protectors.

Subject: Standard for Protectors for Communication Circuits.

Accompanying this letter is a copy of the first (March, 1953) edition of the Standard for Protectors for Communication Circuits. The Laboratories has not previously published a Standard covering these devices.

The new Standard has been prepared as a result of careful study by the Laboratories' staff; it has been reviewed by and discussed with manufacturers of listed protectors and with others known to have an interest in the requirements which this Standard contains; and it has been approved by the Laboratories' Electrical Council, which is comprised largely of inspection authorities throughout the United States.

The new Standard consists essentially of the material which was contained in the bulletins of November 19, 1952 and February 5, 1953; and it becomes effective forthwith.

UNDERWRITERS' LABORATORIES, INC.

H. B. Smith

H. B. SMITH
Standards Engineer

X-TH 9237.U5 #83

TH 9237
.U5

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Subject 588 May 27, 1953

To: Holders of the Standard for Christmas-Tree and Decorative-Lighting Outfits.

Subject: Conductor Stranding in Christmas-Tree Wires and Cords, and Lampholders in Decorative Units.

Attached are sticker inserts carrying the texts of revised paragraph 21 on conductor stranding and new paragraphs 51A-51B on lampholders in decorative units, all of which become effective immediately. These amendments have been made in accordance with the Laboratories' bulletin of February 10, 1953 -- the change in paragraph 21 having been predicated upon a corresponding change in the Laboratories' Standard for Flexible Cord and Fixture Wire.

Please separate these stickers as indicated and insert them on pages 7 and 11, respectively, of your copy of the Standard.

UNDERWRITERS' LABORATORIES, INC.

H. B. SMITH

21 Types FX and FXT Christmas-tree wires employ No. 20 Awg conductors consisting of annealed copper strands not larger than No. 30 nor smaller than No. 36 Awg. In Type FX wire the conductor strands are wrapped with a tight, close wind of cotton or paper; the insulation is of code-grade rubber compound, not less than 1/64 inch thick; and the insulated conductor is provided with a standard braid. Type FXT wire differs from Type FX wire in that the insulation consists of a suitable thermoplastic compound, not less than 0.023 inch thick (nominal), without wrap or braid.

Paragraph 21 revised May, 1953 — Standard for Christmas-Tree and Decorative-Lighting Outfits, Ninth Edition

---

51A **A lampholder employed in a decorative unit which is not marked for indoor use only shall be of the candelabra-base or larger size and shall be switchless.**

51B A switched lampholder of the candelabra-base or larger size may be used in a decorative unit intended for indoor use only.

Paragraphs 51A and 51B added May, 1953 — Standard for Christmas-Tree and Decorative-Lighting Outfits, Ninth Edition

X-TH 9237
.U5

X-TH 9237.U5 #84

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5
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Subject 98

May 29, 1953

To: Holders of the Standard for Enclosed Switches.

Subject: Fused Motor-Circuit Switches, and Increased Horsepower Ratings.

Accompanying this letter are sticker inserts carrying the texts of revised paragraphs 167, 185, and 196 relating to fused motor-circuit switches, and the revised table of horsepower ratings as given in paragraph 202, all of which become effective July 1, 1953. The paragraphs relating to fused motor-circuit switches have been amended in accordance with the Laboratories' bulletins of January 23 and April 22 on this subject. The table of horsepower ratings in paragraph 202 has been amended in accord-

202

Size of Fuseholder in Amperes	Volts	Rating Horsepower—Maximum Two-Pole Single-Phase	Two-Pole DC	Three-Pole Three-Phase	Four-Pole Two-Phase
30	120 AC	¾ 0*		1½ 3*	2 3*
60		1½ 3*		3 7½*	3 10*
30	125 DC		2 3*		
60			5		
30	240 AC	1½ 3*		3 7½*	3 10*
60		3 10*		7½ 15*	7½ 20*
100		7½ 15*		15 30*	15 30*
200		15		25 50*	30 50*
400				50	50
30	250 DC		5		
60			10		
100			20		
200			40		
400			50		
30	480 AC	3 7½*		5 15*	7½ 20*
60		5 20*		15 30*	15 40*
100		10 30*		25 50*	25 50*
200		25 50*		50	50
30	600 AC	3 10*		7½ 20*	10 25*
60		10 25*		15 50*	20 50*
100		15 40*		30 50*	30 50*
200		30 50*		50	50
30	600 DC		10 15*		
60			25 30*		
100			40 50*		
200			50		

* These are additional ratings to be used only when the switch is marked to indicate that such ratings are applicable only when the conditions of maintenance and supervision provide that appropriate fuses for the starting characteristics of the motor will be continually available as provided in the National Electrical Code.

Paragraph 202 revised May, 1953 — Standard for Enclosed Switches, Sixth Edition

196

The maximum full-load ampere rating (see paragraph 194) of a fused motor-circuit switch shall be the whole number nearest to 125 percent of the appropriate value selected from the table in paragraph 190 or 191, but the horsepower rating shall be such that the maximum full-load ampere rating will not be more than 87 percent of the current rating of the fuseholder.

Paragraph 196 revised May, 1953 — Standard for Enclosed Switches, Sixth Edition

switch, the test is to be made at 125 percent of the full-load running current given in the table in paragraph 190 or 191. See also paragraph 196.

Paragraph 185 revised May, 1953 — Standard for Enclosed Switches, Sixth Edition

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Subject 57 May 28, 1953

To: Electrical Council of Underwriters' Laboratories, Inc.,
and
Manufacturers of Listed Electric Lighting Fixtures.

Subject: Explanatory Notes Applying to the Standard for Electric Lighting Fixtures.

In the Laboratories' bulletin of December 29, 1952 there were given a number of interpretations and points of information concerning the requirements of the sixth edition of the Standard for Electric Lighting Fixtures, and it was indicated that additional items would be covered in subsequent bulletins to be issued from time to time as the occasion might arise.

It has now been found desirable to amend the original bulletin to modify some of the items given therein and to add additional information. In order that this information may be more conveniently used in conjunction with the Standard, it has been put in the form of a printed page which may be inserted in the Standard if it is so desired. The attached page supersedes the bulletin of December 29, 1952 and contains amended information concerning paragraphs 60 and 193, and entirely new items covering paragraph 122. Otherwise, there are a few editorial changes.

These Explanatory Notes will be revised and reissued when there is occasion to modify the information contained therein or to include additional items.

UNDERWRITERS' LABORATORIES, INC.

H. B. Smith

H. B. SMITH
Standards Engineer

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Subject 795

April 15, 1953

TO: Holders of the Standard for Commercial-Industrial Gas-Heating Equipment

SUBJECT: Correction of Errors in the Standard

In paragraphs 2.1.12.6 and A.2.11 of the current edition (November, 1952) of the above-mentioned Standard, there are printer's errors which were not discovered during the proofreading process.

In the right-hand column of the table of paragraph 2.1.12.6, the figures 1-1/2 and 2 were transposed.

In paragraph A.2.1.1, the reference to SECTION A2.2 should have read "SECTION A2.3."

Sticker inserts giving the corrected texts of these two paragraphs have been prepared and copies of these stickers are attached. Please insert them at the proper ... of the Standard.

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... ABORATORIES, INC.,

2.1.12.6 **Insulators shall provide a distance, as measured across the surface of the insulators, between the nearest point of bare current-carrying parts and the nearest electrically grounded metal surface as indicated below:**

Secondary Voltage of Ignition Transformer	Minimum Surface Distance Over Insulator, Inches
Not more than 6,000	1
Not more than 10,000	1½
Not more than 15,000	2

Paragraph 2.1.12.6 corrected April, 1953 —
Standard for Commercial-Industrial Gas-Heating Equipment,
First Edition

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motor is to be applied. Section A2.3 applies only to motors driving bu... mechanism; it does not apply to motors driving air-circulating fans or wa... pumps included as part of gas-burning equipment.

Paragraph A2.1.1 corrected April, 1953 —
Standard for Commercial-Industrial Gas-Heating Equipment,
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August 25, 1953.

Subject 83

To: Holders of the Standard for Thermoplastic-Insulated Wires

Subject: Insulation Colors and Stripe Markings.

Attached is a sticker insert carrying the text of new paragraph 124A for the Laboratories' Standard for Thermoplastic-Insulated Wires. The wording of this paragraph is that which was proposed in our bulletin letter of June 18, 1953, and with which general concurrence by the industry has been indicated. Please insert this sticker on page 28 of your copy of the Standard.

UNDERWRITERS' LABORATORIES, INC.

H. B. SMITH
Standards Engineer.

124A The color of a finished thermoplastic-insulated wire (single conductor) is not specified, except that a wire which is finished to show a white or natural gray color shall not have a stripe of any contrasting color, and a wire which is finished to show a color other than white or natural gray shall not have a stripe of white or natural gray.

Paragraph 124A added August, 1953 — Standard for Thermoplastic-Insulated Wires, Third Edition

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Subject 854 April 28, 1953

To: Holders of the Standard for Service Cables.

Subject: Copper and Aluminum Conductors in Service Cables, and Type-Letter Markings.

Accompanying this letter are sticker inserts for the April, 1937 (first) edition of the Laboratories' Standard for Service Cables.

Paragraph 11 has been revised in accordance with the Laboratories' bulletin of January 16th. Paragraph 12 has been revised in accordance with the bulletin of February 9th. Paragraph 54C is an explanatory paragraph which has been added to ... o cite examples

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11 No copper conductor of a service-entrance cable shall be smaller in size than No. 12 Awg and no aluminum conductor shall be smaller in size than No. 10 Awg, except that Type USE cable for underground use only between buildings may employ No. 14 Awg copper conductors or No. 12 Awg aluminum conductors, in which case the marking shall be as specified in item 6 of paragraph 54. Copper conductors smaller than No. 10 Awg shall be of medium- or hard-drawn copper except that the conductors of Type USE cable may be of soft-annealed copper. Aluminum conductors shall employ the electrical-conductivity grade of aluminum; No. 8 Awg and smaller solid conductors shall employ semi-annealed aluminum; and No. 6 Awg and larger solid conductors and all sizes of stranded conductors may employ either semi-annealed or hard-drawn aluminum. Semi-annealed aluminum shall have a tensile strength within the range of 17,000–22,000 pounds per square inch.

12 The insulated conductors of a service-entrance cable shall be of the same size. If the same metal is employed, an uninsulated conductor may be smaller than the other conductors by two Awg numbers, but not smaller than No. 12 Awg if of copper nor No. 10 Awg if of aluminum, except for Type USE cable as noted in the preceding paragraph. An uninsulated aluminum conductor shall be not smaller than the other conductors if they are of copper. An uninsulated copper conductor may be smaller than insulated aluminum conductors by four Awg numbers, but shall not be smaller than No. 12 Awg, except for Type USE cable as noted in the preceding paragraph.

Paragraphs 11 – 12 revised April, 1953 — Standard for Service Cables, First Edition

54C The preceding paragraph is intended to require a clear marking of the proper type-letter designation and to preclude the use of suffix letters or numerals or other symbols in proximity to the type letters which would be in any way confusing. For example, the words "Type SE-U" or "Type USE-RR" are not acceptable; but the words "Type SE — Style U" or "Type USE — Style RR" are acceptable.

Paragraph 54C added April, 1953 — Standard for Service Cables, First Edition

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Subject 869 September 30, 1953

To: Holders of the Standard for Service Equipment.

Subject: Alternating-Current Equipment Rated at 250 Volts or Less.

Attached is a sticker carrying the amended text of the table in paragraph 231 of the Laboratories' Standard for Service Equipment. The new table becomes effective immediately.

The changes in and additions to the recognized voltage ratings of service equipment are in accordance with the proposal set forth in the Laboratories' bulletin of July 29, 1953, with which the manufacturers of labeled equipment in this classification have concurred.

Please insert this sticker on page 41 of your copy of the Service Equipment Standard.

UNDERWRITERS' LABORATORIES, INC.

H. B. Smith

H. B. SMITH
Standards Engineer

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Subject 98 September 29, 1953

To: Holders of the Standard for Enclosed Switches.

Subject: Alternating-Current Equipment Rated at 250 Volts or Less.

Attached is a sticker carrying the amended text of the table in paragraph 199 of the Laboratories' Standard for Enclosed Switches. The new table becomes effective immediately.

The changes in and additions to the recognized voltage ratings of enclosed switches are in accordance with the proposal set forth in the Laboratories' bulletin of July 29, 1953, with which the manufacturers of labeled equipment in this classification have concurred.

Please insert this sticker on page 39 of your copy of the Enclosed Switch Standard.

UNDERWRITERS' LABORATORIES, INC.

H. B. Smith

H. B. SMITH
Standards Engineer